Patent Claims

1. An air inlet, in particular for a motor vehicle, having an air duct (2) supplying air, a metering device (3) and an air-guiding device (4), characterized in that the air in the air-guiding device (4), at least in regions, is divided into a plurality of subducts (11, 12), without any significant change in direction of the subducts (11, 12) being provided in the divided entry region (10).

2. The air inlet as claimed in claim 1, characterized in that the air-guiding device (4) has a partition which, at least in regions, runs as an extension of the longitudinal direction of the air duct (2).

3. The air inlet as claimed in one of the preceding claims, characterized in that the division of the air duct (2) into a plurality of subducts (11, 12) is provided for at a distance of 1 to 10, in particular 2 to 5, times the mean diameter of the air duct (2) in the corresponding region upstream of the exit of the air from the air-guiding device (4).

4. The air inlet as claimed in one of the preceding claims, characterized in that the air-guiding device (4) has an elbow (15), with the air being divided into a plurality of, in particular two, subducts (11, 12) in the region of the elbow (15).

5. The air inlet as claimed in one of the preceding claims, characterized in that the angle of the elbow (15) is from 60° to 120°, in particular from 80° to 100°.

6. The air inlet as claimed in claim 5, characterized in that the angle of the elbow (15) is 90°.

7. The air inlet as claimed in one of the preceding claims, characterized in that the division in the entry region (10) into the region with two subducts (11, 12) is axially symmetrical.

8. The air inlet as claimed in one of the preceding claims, characterized in that the metering device (3) is arranged upstream of the air-guiding device (4).

9. The air inlet as claimed in one of the preceding claims, characterized in that the air-guiding device (4) is designed in such a manner that a middle region and an outer region, to which air can flow through different subducts (11, 12), are provided in the outflow region from the air-guiding device (4).

10. The air inlet as claimed in one of the preceding claims, characterized in that the air-guiding device (4) has a coiled or elongate, helical region.

11. The air inlet as claimed in one of the preceding claims, characterized in that the metering device (3) is designed in such a manner that the air which can be fed to the individual subducts (11, 12) is controllable.

12. The air inlet as claimed in one of the preceding claims, characterized in that the metering device (3) controls both the distribution of the incoming air between the individual subducts (11, 12) and the metering thereof.

13. The air inlet as claimed in one of the preceding claims, characterized in that the metering device (3) provided is an actuating device (20) which has a double flap (21) controlled by means of a cam disc (22) or a kinematic mechanism.

14. The air inlet as claimed in claim 13, characterized in that the actuating device (20) is connected directly, via a shaft, to an actuating member (23).